

cond
in
cond

What is claimed is:

1. A high voltage cable including a fiber core, a first layer of an electrically relatively non-insulative polymer, a second layer of an electrically relatively non-conductive polymer, a third layer of an electrically relatively non-insulative polymer, a fourth layer including a metal braid shield, and a fifth layer including a relatively solvent- and abrasive-resistant polymer jacket.
2. The cable of claim 1 wherein the fiber core includes a stranded fiber polyester core.
3. The cable of claim 2 wherein the fiber core is impregnated to increase its bulk conductivity.
4. The cable of claim 3 wherein the fiber core is impregnated with carbon black.
5. The cable of claim 1 wherein the fiber core is impregnated to increase its bulk conductivity.
6. The cable of claim 5 wherein the fiber core is impregnated with carbon black.
7. The cable of claim 1 wherein the first layer includes a layer of semiconductive polyethylene.
8. The cable of claim 7 wherein the layer of semiconductive polyethylene includes a layer of carbon black-loaded polyethylene.
9. The cable of claim 1 wherein the second layer includes a layer of electrically relatively non-conductive polyethylene.
10. The cable of claim 9 wherein the layer of electrically relatively non-conductive polyethylene includes a layer of relatively high molecular weight, relatively low density polyethylene.
11. The cable of claim 1 wherein the third layer includes a layer of electrically relatively non-insulative polyvinyl chloride.
12. The cable of claim 11 wherein the layer of electrically relatively non-insulative polyvinyl chloride includes a layer of spirally extruded electrically relatively non-insulative polyvinyl chloride.

- AI
- 52
'02
- 103
- 10307-4573360
13. The cable of claim 1 wherein the third layer includes a layer of spirally extruded electrically relatively non-insulative polymer.
14. The cable of claim 1 wherein the metal braid shield includes a copper-containing braid shield.
15. The cable of claim 14 wherein the copper-containing braid shield further contains tin.
16. The cable of claim 1 wherein the metal braid shield includes a tin-containing braid shield.
17. The cable of claim 1 wherein the metal braid shield includes a metal braid covering between about 85% and about 100% of the outside surface of the third layer 26 of electrically relatively non-insulative polymer.
18. The cable of claim 1 wherein the pitch of the braid of the metal braid shield is between about 0° and about 20° to a perpendicular to the longitudinal extent of the cable.
- 15 19. The cable of claim 1 wherein the polymer jacket includes a flexible polyurethane jacket.
- 20 20. The cable of claim 1 in combination with a high magnitude electrostatic potential supply, a device for the electrostatically aided atomization and dispensing of a coating material, a source of the coating material coupled to the device, the high voltage cable coupling the potential supply to the device.